Attachment H – System Limitations

The following limitations apply to SIMSS Release 7.

Num	Description	Workaround
1	Not all modules are capable of connecting to the Serial modules.	Currently, TxFile, GenericTLM, TDMGen, IPInput, IPOutput, Wrapper, Stripper, Log, and TDMDQM are capable of working with Serial modules.
2	The wrapper and stripper modules assume that any header longer than eighteen bytes is a NASCOM header combined with an RTP header. If a PEP calculation is indicated in the configuration file, it will ignore the first twelve bytes of the header.	Do not create a configuration file that requests a NASCOM PEP and also has a header larger than eighteen bytes unless it is a NASCOM/RTP combination with a standard thirty-byte combined header.
3	Buffer displays show a maximum of the first 1400 bytes of data.	Log the data and review it offline.
4	The GenTlm module does not implement telemetry packet secondary headers.	None.
5	The "P-field" and "Epoch sec" elements of the GenTlm packet header display are meaningless.	Ignore these fields.
6	Log modules do not allow a user to stop and restart logging to the same file. Each start/restart requires a new log file name or the previously logged data will be overwritten.	Users should be aware of this limitation. In order to save previously logged data, always specify a new log file before starting or restarting a log module.
7	The wrapper and stripper modules are sensitive to the column positioning of entries in the configuration file.	Users should make sure that any files they create follow the exact same format as the existing files.
8	GenTlm, CmdGen, and Test modules do not save or restore internal configuration.	None.
9	Using log file mode in TXFile, user cannot use following operations: • A starting offset into the file • Reverse order (with very big file) • Auto-blocks options When using auto-complete file mode, the cycles field is not used so the log file is only transmitted one time	A log file may be used to create a new file that can use those options from the offset mode. Use TXFile to transmit the log file to a log module with fixed block size and no log headers. Use the log file with manual transmission mode.
10	The Version Identification capability in "About" menu of each module may not reflect the latest date of changes if the module's DllMainClass.cpp file was not checked in at the same time	Make sure to check in the DllMainClass.cpp file each time any change was made in the module.
11	The ICS serial card supports up to 2 Mbps in	None.

	real data flow test even though its specification says up to 4Mbps. Note that the newly implemented Serial/IP conversion and buffering scheme for ICS card has limited the data rate to a maximum of about 1 Mbps.	
12	The conditional scenario uses several reserved characters for Boolean and mathematical operators (similar to C/C++ style). These reserved characters should not be used for and/or in container mnemonics in any other modules connected to the Scenario module.	Not to use.
13	The SIMSS Library has 26 single character reserved words, i.e. "A" through "Z", which are used for directive manipulation. These reserved words should not be used for container mnemonics in any DLL modules.	Not to use.
14	For conditional scenario, set directives sent to a downstream module may not have been executed when a conditional expression using the "changed" container item is evaluated.	Add a "Sleep 1" prior to each IF or WHILE condition statement, especially when the container item of the prior set directive is used in the conditional expression.
15	For serial output that is convolutional encoded, the frame length can be no greater than 2048 bytes.	Do not try to convolutional encode a frame > 2048 bytes.
16	The serial input module does not support TTL input.	Use a TTL converter.